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Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	59	matthew near huras.in.	US-PGPUB; USPAT	OR	ON	2007/06/11 11:14
S2	28	sam near lightstone.in.	US-PGPUB; USPAT	OR	ON	2007/06/11 11:23
S 3	9	sujay near parekh.in.	US-PGPUB; USPAT	OR	ON	2007/06/11 11:24
S4	12	kevin near rose.in.	US-PGPUB; USPAT	OR	ON	2007/06/11 13:49
S5	70005	(ibm or "international business machines").as.	US-PGPUB; USPAT	OR	ON	2007/06/11 11:25
S7	68	S5 and (throttl\$4).clm.	US-PGPUB; USPAT	OR	ON	2007/06/11 11:26
58	3163	717/124-135.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR ·	ON	2007/06/11 11:34
S9	29	S8 and throttl\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/11 11:34
S10	20	S9 and (@pd<"20031019" or @ad<"20031019" or @prad<"20031019" or @rlad<"20031019")	US-PGPÚB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR .	ON	2007/06/12 08:37
S11	207	S8 and ((limit\$4 or reduc\$4) near3 resource)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/11 13:08
S12	142	S11 and performance	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/11 13:11

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S13	,	S12 and (@pd<"20031019" or @ad<"20031019" or @prad<"20031019" or @rlad<"20031019")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/11 15:12
S14	341	throttl\$4 adj level	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/11 13:36
S15		S14 and (manag\$5 near3 performance)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/11 13:40
S16	4	("4807161" "5428789" "6205468" "6834386").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/06/11 13:43
S17	100	john near douceur.in.	US-PGPUB; USPAT	OR	ON	2007/06/11 13:49
S18	. 3	S17 and throttl\$4	US-PGPUB; USPAT	OR	ON	2007/06/11 13:50
S19	50	("7137019" "20040221184" "20050086659" "20070074057" "5842024" "6032172" "6287765" "6292830" "20040172408" "5435138" "5517977" "5524596" "5754852" "4417131" "5008560" "5212915" "5247682" "5407152" "5485628" "5511872" "5535415" "5688168" "5740650" "5745751" "5746034" "5746035" "5779609" "5784843" "5809708" "5886295" "5899025" "5899036" RE36226 "6067762" "6073399" "6128873" "6202374" "6279643" "6313549" "6356822" "6415567" "6427101" "6430486" "6438545" "6564201" "6748707" "6931795" "20040236620" "20050038721" "5375242").pn.	US-PGPUB; USPAT	OR	ON	2007/06/11 14:02
S20	3036	718/102-104.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR .	ON	2007/06/11 15:12

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S21	74	S20 and throttl\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/11 15:12
S22	68	S21 and (@pd<"20031019" or @ad<"20031019" or @prad<"20031019" or @rlad<"20031019")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/11 15:12
S23	10	(US-20070074057-\$ or US-20040221184-\$ or US-20030088605-\$ or US-20050071834-\$).did. or (US-7137019-\$ or US-7093253-\$ or US-5903759-\$ or US-6834386-\$ or US-7086059-\$ or US-6766349-\$). did.	US-PGPUB; USPAT	OR	ON	2007/06/12 08:28
S24	0	S23 and ((reduc\$4 or lower\$4) near3 (memory or space))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR .	ON	2007/06/12 08:29
S25	2337	performance and throttl\$4 and ((reduc\$4 or lower\$4) near3 (memory or space))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR .	ON	2007/06/12 08:35
S26	695	performance and throttl\$4 and ((reduc\$4 or lower\$4) near3 memory)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 08:35
S29	31	S26 and ("717".clas. or "718".clas.)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 08:36
S30	27	S29 and (@pd<"20031019" or @ad<"20031019" or @prad<"20031019" or @rlad<"20031019")	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/12 08:37



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Mitigating Amdahl's Law through EPI Throttling

Murali Annavaram, Ed Grochowski, John Shen

May 2005 ACM SIGARCH Computer Architecture News, Proceedings of the 32nd Annual International Symposium on Computer Architecture ISCA '05,

Volume 33 Issue 2

Publisher: IEEE Computer Society, ACM Press

Full text available: pdf(202.69 KB) Additional Information: full citation, abstract, citings, index terms

This paper is motivated by three recent trends in computer design. First, chip multiprocessors (CMPs) with increasing numbers of CPU cores per chip are becoming common. Second, multi-threaded software that can take advantage of CMPs will soon become prevalent. Due to the nature of the algorithms, these multi-threaded programs inherently will have phases of sequential execution; Amdahlýs law dictates that the speedup of such parallel programs will be limited by the sequential portion of the comp ...

2 Defending against distributed denial-of-service attacks with max-min fair servercentric router throttles

David K. Y. Yau, John C. S. Lui, Feng Liang, Yeung Yam

February 2005 IEEE/ACM Transactions on Networking (TON), Volume 13 Issue 1

Publisher: IEEE Press

Full text available: pdf(820.35 KB)

Additional Information: full citation, abstract, references, citings, index terms, review

Our work targets a network architecture and accompanying algorithms for countering distributed denial-of-service (DDoS) attacks directed at an Internet server. The basic mechanism is for a server under stress to install a router throttle at selected upstream routers. The throttle can be the leaky-bucket rate at which a router can forward packets destined for the server. Hence, before aggressive packets can converge to overwhelm the server, participating routers proactively regulate the contribut ...

Keywords: congestion control, distributed denial of service, network security, router throttling

Speculative parallel simulation with an adaptive throttle scheme

Seng Chuan Tay, Yong Meng Teo, Siew Theng Kong

June 1997 ACM SIGSIM Simulation Digest, Proceedings of the eleventh workshop on Parallel and distributed simulation PADS '97, Volume 27 Issue 1

Publisher: IEEE Computer Society, ACM Press

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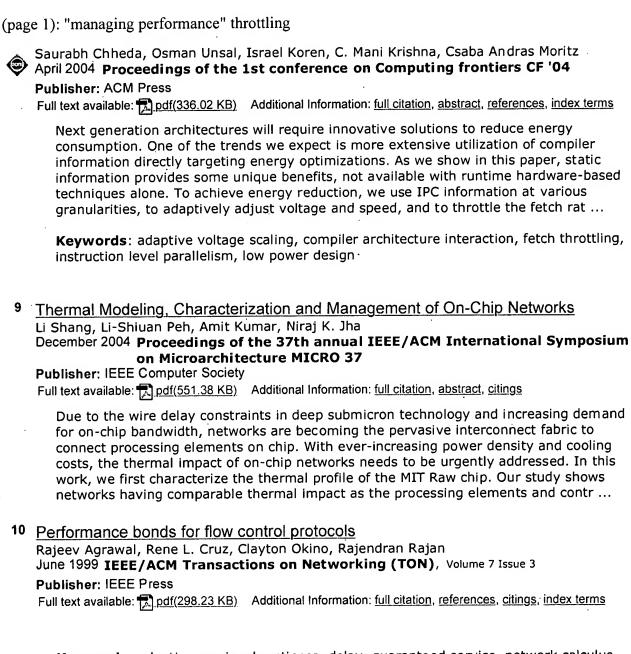
Full text available: pdf(939.88 KB) Additional Information: full citation, abstract, references, citings, index

terms

Excessive rollback recoveries due to overoptimistic event execution in Time Warp simulators often degrade their runtime performance. This paper presents a two-sided throttling scheme to dynamically adjust the event execution speed of Time Warp simulators. The proposed throttle is based on a new concept called global progress window, which allows the individual simulation process to be positioned on a global time scale, thereby to accelerate or suspend their event execution. As each simulation pr ...

	scale, thereby to accelerate of suspend their event execution. As each simulation pr				
4	Burst reduction properties of rate-control throttles: downstream queue behavior				
7	Zhen Liu, Don Towsley				
	February 1995 IEEE/ACM Transactions on Networking (TON), Volume 3 Issue 1				
	Publisher: IEEE Press				
	Full text available: pdf(1.34 MB) Additional Information: full citation, references, index terms				
	·				
5	Estimating the cost of throttled execution in time warp				
	Samir R. Das				
	July 1996 ACM SIGSIM Simulation Digest, Proceedings of the tenth workshop on				
Parallel and distributed simulation PADS '96, Volume 26 Issue 1 Publisher: IEEE Computer Society, ACM Press					
	Full text available: pdf(442.79 KB) Additional Information: full citation, abstract, references, citings, index				
	Publisher Site terms				
	Over-optimistic execution has long been identified as a major performance bottleneck in				
	Time Warp based parallel simulation systems. An appropriate throttle or control of				
	optimism can improve performance by reducing the number of rollbacks. However, the				
	design of an appropriate throttle is a difficult task, as correct computations on the critical				
	path may be blocked, thus increasing the overall execution time. In this paper we build a				
	cost model for throttled execution that involves both rollbac				
	Keywords: discrete event simulation, parallel simulation, time warp, performance model				
_					
6	Efficient network and I/O throttling for fine-grain cycle stealing Kyung D. Ryu, Jeffrey K. Hollingsworth, Peter J. Keleher				
③	November 2001 Proceedings of the 2001 ACM/IEEE conference on Supercomputing				
	(CDROM) Supercomputing '01				
	Publisher: ACM Press				
	Full text available: pdf(127.89 KB) Additional Information: full citation, abstract, references, citings, index terms				
	This paper proposes and evaluates a new mechanism, rate windows, for I/O and network rate policing. The goal of the proposed system is to provide a simple, yet effective way to				
	enforce resource limits on target classes of jobs in a system. This work was motivated by				
	our Linger Longer infrastructure, which harvests idle cycles in networks of workstations.				
	Network and I/O throttling is crucial because Linger Longer can leave guest jobs on non-				
	idle nodes and machine owners should not be adversely a				
7	Instruction flow-based front-end throttling for power-aware high-performance				
-	processors				
②	Amirali Baniasadi, Andreas Moshovos				
	August 2001 Proceedings of the 2001 international symposium on Low power				
	electronics and design ISLPED '01				
	Publisher: ACM Press Full text available: ₩ pdf(141.43 KB) Additional Information: full citation, references, citings, index terms				

Power awareness: Combining compiler and runtime IPC predictions to reduce energy in next generation architectures



Keywords: adaptive service, burstiness, delay, guaranteed service, network calculus, queueing, regulator, scheduler, service curve

11 Chiron-1: a software architecture for user interface development, maintenance, and

run-time support

Richard N. Taylor, Kari A. Nies, Gregory Alan Bolcer, Craig A. MacFarlane, Kenneth M.

Anderson, Gregory F. Johnson

June 1995 ACM Transactions on Computer-Human Interaction (TOCHI), Volume 2 Issue 2

Publisher: ACM Press

Full text available: pdf(2.65 MB)

Additional Information: full citation, abstract, references, citings, index terms, review

The Chiron-1 user interface system demonstrates key techniques that enable a strict separation of an application from its user interface. These techniques include separating the control-flow aspects of the application and user interface: they are concurrent and may contain many threads. Chiron also separates windowing and look-and-feel issues from dialogue and abstract presentation decisions via mechanisms employing a clientserver architecture. To separate application code from user interf ...

Keywords: artists, client-server, concurrency, event-based integration, user interface architectures

12	Manchester data-flow: a progress report	
(2)	J. R. Gurd, D. F. Snelling August 1992 Proceedings of the 6th international conference on Supercomputing ICS '92	
	Publisher: ACM Press	
	Full text available: pdf(1.23 MB) Additional Information: full citation, abstract, references, citings, index terms	
	The Manchester Data-Flow Machine, MDFM, has evolved continuously during the past decade. By the time the prototype uniprocessor hardware system was decommissioned, in 1989, the putative multi-processor architecture comprised separate Processing Elements and Structure Store Units, together with a "global" Allocator and Throttle Unit, all linked by a packet-based Interconnection Switch. The decisions leading to this design are well documented in the literature, but some	
.13	Balancing power consumption in multiprocessor systems	
•	Andreas Merkel, Frank Bellosa April 2006 ACM SIGOPS Operating Systems Review , Proceedings of the 2006 EuroSys conference EuroSys '06, Volume 40 Issue 4 Publisher: ACM Press	
	Full text available: pdf(688.06 KB) Additional Information: full citation, abstract, references, index terms	
	Actions usually taken to prevent processors from overheating, such as decreasing the frequency or stopping the execution flow, also degrade performance. Multiprocessor systems, however, offer the possibility of moving the task that caused a CPU to overheat away to some other, cooler CPU, so throttling becomes only a last resort taken if all of a system's processors are hot. Additionally, the scheduler can take advantage of the energy characteristics of individual tasks, and distribute hot tasks	
	Keywords : energy estimation, energy-aware scheduling, event counters, task migration, thermal management	
14	Combining optimism limiting schemes in time warp based parallel simulations Kevin Jones, Samir R. Das December 1998 Proceedings of the 30th conference on Winter simulation WSC '98	
	Publisher: IEEE Computer Society Press Full text available: pdf(70.94 KB) Additional Information: full citation, references, citings, index terms	
15 ②	Disk Drive Roadmap from the Thermal Perspective: A Case for Dynamic Thermal Management	
	Sudhanva Gurumurthi, Anand Sivasubramaniam, Vivek K. Natarajan May 2005 ACM SIGARCH Computer Architecture News, Proceedings of the 32nd Annual International Symposium on Computer Architecture ISCA '05, Volume 33 Issue 2	
	Publisher: IEEE Computer Society, ACM Press Full text available: pdf(243.57 KB) Additional Information: full citation, abstract, index terms	
	The importance of pushing the performance envelope of disk drives continues to grow, not just in the server market but also in numerous consumer electronics products. One of the most fundamental factors impacting disk drive design is the heat dissipation and its effect on drive reliability, since high temperatures can cause off-track errors, or even head crashes. Until now, drive manufacturers have continued to meet the 40% annual growth target of the internal data rates (IDR) by increasing RPMs	
16	Thermal issues in disk drive design: Challenges and possible solutions Sudhanva Gurumurthi, Anand Sivasubramaniam February 2006	

ACM Transactions on Storage (TOS), Volume 2 Issue 1

Publisher: ACM Press

Full text available: pdf(2.14 MB)

Additional Information: full citation, abstract, references, index terms

The importance of pushing the performance envelope of disk drives continues to grow in the enterprise storage market. One of the most fundamental factors impacting disk drive design is heat dissipation, since it directly affects drive reliability. Until now, drive manufacturers have continued to meet the 40% annual growth target of the internal data-rates (IDR) by increasing RPMs and shrinking platter sizes, both of which have counteracting effects on the heat dissipation within a drive. ...

Keywords: Disk drive, technology scaling, thermal management

	Tolerating memory latency through push prefetching for pointer-intensive applications				
	Chia-Lin Yang, Alvin R. Lebeck, Hung-Wei Tseng, Chien-Hao Lee December 2004 ACM Transactions on Architecture and Code Optimization (TACO),				
A					
	Volume 1 Issue 4				
	Publisher: ACM Press				
	Full text available: pdf(590,24 KB) Additional Information: full citation, abstract, references, index terms				
	Prefetching is often used to overlap memory latency with computation for array-based				

Prefetching is often used to overlap memory latency with computation for array-based applications. However, prefetching for pointer-intensive applications remains a challenge because of the irregular memory access pattern and pointer-chasing problem. In this paper, we proposed a cooperative hardware/software prefetching framework, the push architecture, which is designed specifically for linked data structures. The push architecture exploits program structure for future address generation instea ...

Keywords: Prefetch, linked data structures, memory hierarchy, pointer-chasing

18 Scheduling computations on a software-based router

Xiaohu Qie, Andy Bavier, Larry Peterson, Scott Karlin
June 2001 ACM SIGMETRICS Performance Evaluation Review, Proceedings of the
2001 ACM SIGMETRICS international conference on Measurement and
modeling of computer systems SIGMETRICS '01, Volume 29 Issue 1

Publisher: ACM Press

Full text available: pdf(1.46 MB) Additional Information: full citation, abstract, references, citings

Recent efforts to add new services to the Internet have increased the interest in software-based routers that are easy to extend and evolve. This paper describes our experiences implementing a software-based router, with a particular focus on the main difficulty we encountered: how to schedule the router's CPU cycles. The scheduling decision is complicated by the desire to differentiate the level of service for different packet flows, which leads to two fundamental conflicts: (1) assigning proce ...

19 Ensemble-level Power Management for Dense Blade Servers

Parthasarathy Ranganathan, Phil Leech, David Irwin, Jeffrey Chase

May 2006 ACM SIGARCH Computer Architecture News, Proceedings of the 33rd

annual international symposium on Computer Architecture ISCA '06, Volume

34 Issue 2

Publisher: IEEE Computer Society, ACM Press

Full text available: 🔁 pdf(333.39 KB) Additional Information: full citation, abstract, index terms

One of the key challenges for high-density servers (e.g., blades) is the increased costs in addressing the power and heat density associated with compaction. Prior approaches have mainly focused on reducing the heat generated at the level of an individual server. In contrast, this work proposes power efficiencies at a larger scale by leveraging statistical properties of concurrent resource usage across a collection of systems ("ensemble"). Specifically, we discuss an implementation of this appro ...

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